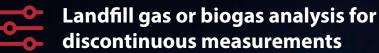


SWG100 BIOcompact

The versatile biogas analyzer.





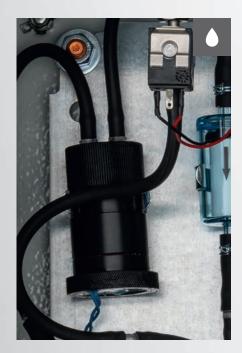
SWG100 BIOcompact

Landfill gas or biogas analysis for discontinuous measurements



The unit in detail

An overview of its special features



Thermal condensate monitoring for safe operation



Cabinet heating temperature regulated, for use in environment from –5°C



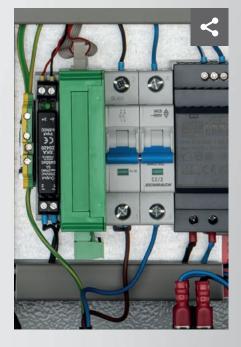
Condensate catch pot and draining pump



Electrochemical sensors for H,S and O, measurements



NDIR-bench for CH₄/CO₂ analysis, for biogas and landfill gas measurements



I/O-Modul with 4-chanel, 4 ... 20 mA analog output and 2 alarm relais (NO-contacts)

SWG 100 BIOcompact

Technical data

Measured components	Measuring method	Range	Resolution	Accuracy
Methane CH ₄	NDIR	0 100%	0,01 Vol%	±0,3 Vol-% or 3 % of reading**
Carbon dioxide CO ₂	NDIR	0 100%	0,01 Vol%	±0,3 Vol-% or 3 % of reading**
Oxygen O ₂	EC	0 25 %	0,01 Vol%	±0,2% abs.
Hydrogen sulfide H ₂ S	EC	0 2.000/4.000 ppm*	1 ppm	±5 ppm or 5 % of reading**
Hydrogen sulfide H ₂ S low	EC	0 50/250 ppm*	1 ppm	±2 ppm or 10 % of reading**
Hydrogen sulfide H ₂ S high	EC	0 5.000/10.000 ppm*	1 ppm	±5 ppm or 5% of reading**
Hydrogen H ₂	EC	0 1.000/2.000 ppm*	1 ppm	±10 ppm or 10% of reading**

Calculated values	Range	Resolution
Nitrogen background N ₂	0 79 %	0,1 %
Gross calorific value	0 40 MJ/m³ / 0 56 MJ/kg	0,1 %
Net Calorific value	0 36 MJ/m³ / 0 50 MJ/kg	0,1 %

General technical data	
HMI / interfaces	3,5"TFT color display Dirt resistant keypad, password protected calibration 4 x analog output 4 20 mA, galvanically isolated max. load 500R 2 Alarm relais, potential free contacts 24 Vdc / 5 A RS485 digital interface (Modbus RTU) RS485 to USB or Ethernet or ProfiBus converter (options)
System safety components	Continuous cabinet ventilation Stainless steel flow restrictor orifice and sample gas shut-down solenoid valve LEL (CH ₄) monitoring inside cabinet (option)
Sample gas preparation	Stainless steel gas fittings with 1/8" ID threads Condensate catch pot and draining pump Teflon particle filter Sampling pump 40 60 I/h Sample inlet pressure: –100 mbar up to +200 mbar Sample venting: atmospheric pressure
Cabinet dimensions	$400 \times 500 \times 210$ mm (H \times W \times D) for wall or rack mounting
Weight / Protection class	25 kg / IP54
Installation site	Indoor or outdoor (rain and sun shade is mandatory user scope of supply)
Ambient temperature	+5° C +45° C or -10° C +45° C with cabinet heater
Cabinet	Steel cabinet with corrosion protective laquer
Power supply	Universal 90 240 Vac / 47 63 Hz / 60 W (360 W with heater)

SWG 100 Biogas



SWG 100 Bio-Ex



OPTIMA Biogas handheld unit



MRU - Competence in gas analysis. Since 1984.



MRU · Messgeraete fuer Rauchgase und Umweltschutz GmbH

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